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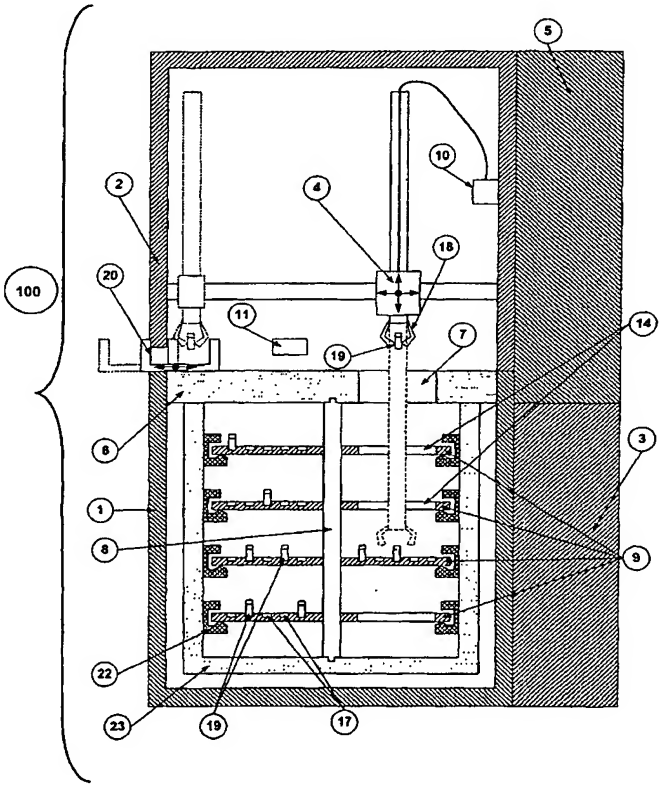
(54) Title: AUTOMATIC SYSTEM FOR CONSERVING SAMPLES AT A CONTROLLED TEMPERATURE



(57) Abstract: An automatic system (100) for conserving samples at a controlled temperature comprising at least one controlled-temperature thermo-insulated conservation chamber (1) with temperature control means (3) containing a set of disks (9) for storing samples (19) and a Cartesian robotic system (4) equipped with pick-up device (18), contained in an upper chamber (2) separated from the chamber (1) by means of an insulating shelf (6), where said Cartesian system (4) through the controlled-access opening (7) moves the samples (19) between the I/O drawer (20) and the above-mentioned set of disks (9). The combined and synchronized movement of the robotic device (4) and of every single disk of the set enables each storage location to be reached. The management of the devices of the automatic system (100) is controlled by an N/C system driven by dedicated management SW.

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